Dragon, Karen E. (CDC/NIOSH/EID)

From: Cloonan, Terrence K. (CDC/NIOSH/NPPTL)
Sent: Wednesday, May 07, 2008 10:40 AM
To: Dragon, Karen E. (CDC/NIOSH/EID)
Subject: Eversole Comments as an IAB member

Attachments: JEversolecover01_scan0011.JPG; JEversolecmt02.JPG; JEversolecmt03.JPG; JEversole_endpagewBerryAnncmt_04.JPG

Late Fire Service Chief John Eversole of IAFC HAZMAT and of Chicago FD HAZMAT, provided hand written comments on the draft CBRN SCBA User's Guide Training Aid, dated September 23, 2005: 2 sets of comment pages separate from identification cover page and end page.


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JEversolecmt02.JPG (1 MB)


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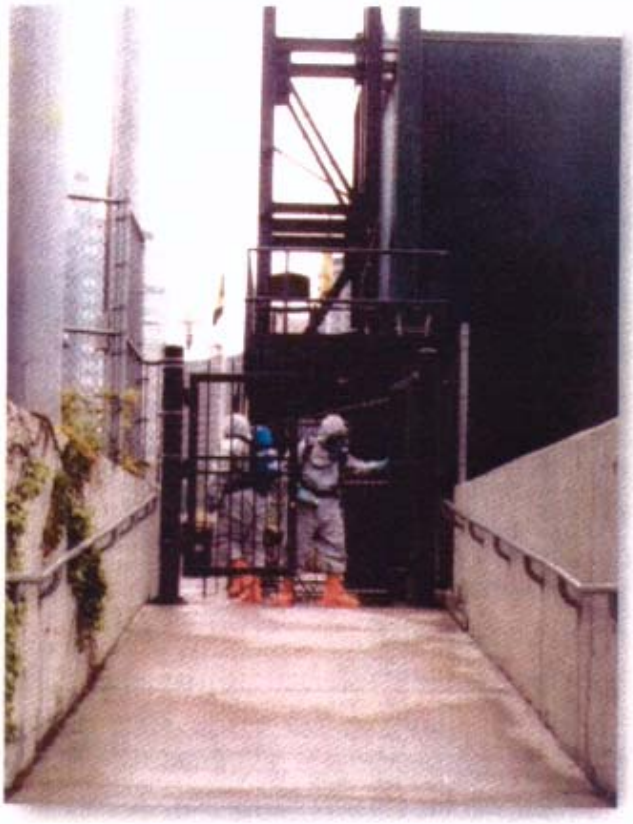
Terrence K. Cloonan
Physical Scientist
Policy and Standards Development Branch
National Personal Protective Technology Laboratory of NIOSH/CDC/HHS, U.S.A.
(412) 386-6701, Desk.

Step 5 User's Instructions (UI)

The User's Instructions (UI) are included with every purchase of a new CBRN SCBA and typically include guidance on:

- Checks for unique parts labeled "CBRN" by the manufacturer
- Pre-use and in-use checks
- Donning and doffing
- Fit-testing and user seal checks
- Unit assembly
- Air cylinder inspection
- Cautions and warning statements unique to each respirator model
- Inspection checklists
- How to verify that the hydrostatic test date on the cylinder is current



- Regulator function (both first stage and second stage regulators)
- Function of all end-of-service-time-indicators (EOSTIs)
- Function of heads up display (HUD)
- Integrity of hoses for damage and tight hose connections
- Function of personal alert safety systems (PASS) if present
- Function of air hatches or compact demand valves

Step 6 Facepiece Indications of Concern

You may have donned the SCBA facepiece incorrectly if:

A) The inside of the facepiece is fogged over
Corrections

- Use anti-fog solution
- Redon the facepiece
- Check that the air is fully turned on
- Seek training or re-training on use of HUD
- Low pressure in cylinder -- seek recharge

B) The second stage regulator or air hatch will not operate correctly or mate properly with the facepiece
Corrections

In a clean atmosphere:

- Disconnect and reconnect the regulator per manufacturer instructions or manually open and close the air hatch per manufacturer instructions
- Ensure facepiece matches make and model of regulator/SCBA
- Ensure locking mechanisms are fully seated and not broken
- Ensure debris is not in the facepiece or regular connection ports

C) Heads up display (HUD) is not working
Corrections

- Inspect the HUD for damage
- Ensure the batteries are serviceable
- Reconnect the second stage regulator to the facepiece to ensure that it is correctly attached
- Ensure the electronic connections of the HUD are clean (if applicable)

Step 7 Decontamination

Have a plan for the decontamination (decon) and disposal of contaminated CBRN SCBA.

The six-hour continuous use life concept includes the decontamination process, but not the disposal of CBRN SCBA following use in a chemical warfare agent (CWA) environment. CWA are nerve agents and blister agents (See Step 4).

If known or suspected contamination is present on the CBRN SCBA, quickly conduct gross decontamination using all available ~~systems such as~~ ladder truck decon ~~or other~~ field expedient decon operations using high volume, low pressure clean water, to remove surface CBRN agent contamination. Contain and properly dispose of contaminated run-off wash.

Certain CBRN agents will not be neutralized while others will be hydrolyzed or diluted while being physically washed off equipment surfaces using these techniques. Contamination avoidance, mitigation, and decontamination practices should be planned out and trained for in advance.

Confirmed contaminated SCBA must be discarded in accordance with local regulatory HAZWOPER requirements. If time permits, users should ensure that known or potentially contaminated CBRN SCBA are double bagged in plastic, labeled with the type of contamination, the amount/type of decontamination solution used, and the technique used to conduct gross decontamination. The amount of exposure time for contaminated SCBA and the amount of CBRN contamination are also beneficial information relative to disposal. Local, state, and federal disposal procedures for specific CBRN agent contamination should be followed.

A decontamination method specific to the type of CBRN contamination present may contribute to the efficacy of decontamination operations. Seek decontamination guidance from the local incident commander, state public health department, or lead federal agency onsite.

Detection of CBRN agents on SCBA is situational dependent and subject to qualified quantitative methodology review by the lead federal agency.

Appendix A: SCBA Example Schematic